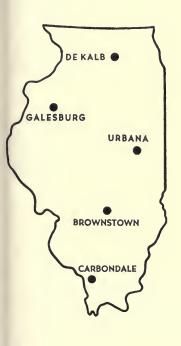






1955 ILLINOIS CORN TESTS



Variety performance
Seed treatment
Diseases

Bulletin 598

UNIVERSITY OF ILLINOIS
AGRICULTURAL EXPERIMENT STATION

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Urbana, Illinois January, 1956

1955 ILLINOIS CORN TESTS

By Earl R. Leng and Benjamin Koehler¹

THE SECOND LARGEST CORN CROP in Illinois' history was harvested in 1955. The estimated total production was about 524 million bushels, second only to the record 564 million bushels harvested in 1948, and well above the 449 million bushels produced in 1954. Despite late summer heat and drouth in some sections of the state, and widespread occurrence of stalk rot and corn borer damage, the average estimated yield of 56 bushels per acre was 6.5 bushels above the 1954 average and about 4.5 bushels higher than the 10-year average.²

PLAN OF THE TESTS

Number of hybrids and their sources. Two hundred fiftytwo hybrids were grown on five major test fields. Forty-two companies and individuals and the Illinois Agricultural Experiment Station furnished seed for the tests.

Eighty-one hybrids were grown at DeKalb. Ninety hybrids were entered in the tests at Galesburg and Urbana. Seventy-two entries were grown at Brownstown and sixty-four hybrids at Carbondale. (For a summary of the tests and results on these fields, see Table 1.)

A representative of the Illinois Station or of the Illinois Crop Improvement Association collected seed for planting the test fields directly from the warehouses of the producers entering the respective hybrids. Seed of certain Illinois and other open-pedigreed hybrids was furnished by the Illinois Station.

Selection of entries. Each year producers of hybrid seed corn are given an opportunity to nominate hybrids for testing on the various fields. In 1955, for the first time in a number of years, a fee was charged for testing hybrids nominated in this manner.

¹ Earl R. Leng, Associate Professor of Agronomy, and Benjamin Koehler, Professor of Crop Pathology.

² Estimates of yields for the state were furnished by the ILLINOIS CO-OPERATIVE CROP REPORTING SERVICE, Illinois State Department of Agriculture cooperating with the U.S. Department of Agriculture.





The size of certain individual tests was increased, so that it was not necessary to reject any entries submitted.

Certain hybrids were entered in the tests to meet the field-performance requirements for certification. A few Station-produced open-pedigreed hybrids were included at each location, and several promising experimental hybrids were grown at some locations. The performance of additional experimental hybrids in 1955 and preceding years is reported in Illinois Bulletin 597.

Table 1.— GENERAL INFORMATION:
Illinois Hybrid Corn Tests, 1955

Field, county, location, and number of entries	Date planted	Date harvested	Average acre- yield	Moisture in grain	Erect plants	Stand
DeKalb: DeKalb, N, 81 Galesburg: Knox, WNC, 90. Urbana: Champaign, C, 90 Brownstown: Fayette, S, 72 Carbondale: Jackson, Ex. S, 64	May 20 May 18 May 17 June 3 June 8	Oct. 19 Oct. 20 Oct. 25 Nov. 9 Oct. 29	bu. 84.7 108.2 107.3 58.7 81.7	perct. 24.8 23.3 18.0 17.0 20.5	99 92 60 28 92	99 90 89 89 89 87

COOPERATORS: RALPH ANDERSON and RALPH HAWTHORNE, Knox county; EARL SCHWARM and H. O. Lewis, Fayette county; Southern Illinois University, Jackson county. Tests in DeKalb and Champaign counties were located on University of Illinois farms managed by R. E. Bell and C. H. Farnham. P. E. Johnson, Assistant Professor of Soil Fertility, supervised field operations on the test in Fayette county.

Soil characteristics of fields. The test fields are usually medium to high in productivity, and each represents a soil type common to the region where it is located. Each field is selected for uniformity in soil type, productivity, and drainage. Approximate locations of test fields are shown on the map on page 4. Soil characteristics and management are described in Table 2.

Table 2. — TEST FIELDS: Soil Characteristics, Management Practices, and Rainfall in 1955

Soil type	Lime require- ment	Available phosphorus	Available potassium	Previous crops, soil manage- ment, and rainfall ¹
		NORTH	HERN: DeK	alb
Flanagan silt loam	tons 0	High	Very high	Corn 1951; oats 1952; red clover 1953; corn 1954; 400 pounds 0-10-30 plowed down; 250 pounds ammonium nitrate side-dressed; 3 tons limestone 1954; rock phosphate applied in 1950. Rainfall (inches): May 4.49; June 4.14;
				July 1.58; August 3.47.
	WE	ST NORTH	-CENTRAL:	Galesburg
Sable silty clay loam	1	High	Very high	Corn 1951; corn 1952; oats 1953; alfalfa and grass 1954; heavy manure applica- tion plowed down; 3 tons limestone ap- plied 1953; rock phosphate applied 1947. Rainfall (inches): May 4.91; June 6.43; July 2.09; August 3.88.
		CENT	RAL: Urbar	na
Drummer silty clay loan	m 0	High	High	Soybeans 1951; corn 1952; oats 1953; clover-brome 1954; limestone applied 1955; rock phosphate applied in past. Rainfall (inches): May 2.94; June 3.01; July 5.47; August 1.83.
		SOUTHE	RN: Browns	stown
Cisne silt loam	2	High	High	Corn 1951; oats and clover 1952; corn 1953; oats and clover 1954; 300 pounds muriate of potash broadcast before planting; 200 pounds ammonium nitrate sidedressed at second cultivation; limestone and rock phosphate applied in past. Rainfall (inches): May 4.17; June 2.63; July 6.42; August 3.30.
	EX	TREME SO	UTHERN:	
Bonnie silt loam.,		Low	Medium	No crop 1951; wheat 1952; lespedeza 1953 and 1954; 275 pounds 0-0-60 plowed down; 300 pounds 0-45-0 disked in; 200 pounds 4-16-16 starter fertilizer applied
				at planting time; 60 pounds nitrogen equivalent side-dressed in two applica- tions, June 31 and July 27; 4 tons line- stone applied 1952. Rainfall (inches): May 5.20; June 4.09;
				July 2.16; August 0.88.
1000111111			Co	

Official rainfall data furnished by Illinois State Climatologist, data obtained from U.S. Weather Bureau publication, "Climatological Data for Illinois."

Field-plot design. A 9×9 lattice-square field-plot design with 5 replications was used on the DeKalb field. The designs used at Galesburg and Urbana were 9×10 rectangular-lattices with 3 replications, while an 8×9 rectangular-lattice with 3 replications was used at Brownstown. The field-plot design at Carbondale was a randomized block test with 4 replications. Because of time limitations, the data from the Galesburg, Urbana, and Brownstown tests presented in this bulletin were analyzed by the procedure normally used for randomized block tests, rather than by the full procedure for rectangular lattices.

Method of planting. All test fields were planted by hand on land prepared in the normal way for corn. Individual plots consisted of 2 rows each 5 hills long. Four kernels were planted to the hill at DeKalb, Galesburg, and Urbana; 3 kernels were planted to the hill at Brownstown and Carbondale. Plots were not thinned.

GROWING CONDITIONS

The 1955 growing season in Illinois was generally favorable. Excessive soil moisture delayed planting operations in some parts of southern Illinois, and both the northern and southern parts of the state were somewhat deficient in moisture during the latter part of the growing season.

The three northern test fields were planted in mid-May in good to excellent seedbeds and made vigorous growth. The DeKalb and Galesburg fields suffered to some extent from a lack of moisture in late July and August but produced excellent yields. Planting of the Brownstown and Carbondale plots was delayed until the first part of June by excessive soil moisture, and seedbeds on these two fields were unduly moist when the corn was planted. Heavy rainfall at both locations shortly after the corn was planted resulted in some loss of stands, and parts of the Brownstown field were replanted on June 20. Later growth and development on the two southern fields were excellent. However, late summer rainfall was deficient at Brownstown and especially lacking at Carbondale, and yields were lower than might otherwise have been produced (see rainfall data, Table 2).

Moderate to heavy corn-borer infestation occurred at DeKalb, and moderate infestations were noted at Galesburg and Urbana. However, very little stalk-breaking directly attributable to corn-borer injury was noted on these fields. Ear-dropping, probably resulting to a considerable extent from corn-borer damage, was more prevalent than usual on the three northern test fields.

Stalk breakage at Urbana and particularly at Brownstown was exceptionally severe. Most of this breakage occurred in September and early October, probably chiefly as the result of stalk rots. Less than 30 percent of the plants at Brownstown were erect at harvest, and only 60 percent were erect at Urbana. As a result, grain quality was rather poor in many plots on these two fields.

Moderate stalk-rot infection occurred in the Carbondale test field, with Diplodia, Gibberella, and Charcoal Rot being noted. Relatively little stalk-breaking, however, occurred on this field. Little stalk-rot injury was noted at either DeKalb or Galesburg, and the percentage of plants lodged in these two fields was low.

DISEASE DAMAGE1

Northern (Helminthosporium) leaf blight occurred very sparsely, and rust likewise was of little importance in 1955. Ear rots also were at a comparatively low ebb, particularly Diplodia. From the standpoint of percent of kernels rotted, Fusarium was the most prevalent, damage being estimated at 0.3 percent; about one-third (32.8 percent) of the ears showed traces or more of the infection.

Stewart's disease. Symptoms of Stewart's disease could be found on many plants in any corn field in the southern two-thirds of Illinois and in occasional fields farther north. The effect, however, was mild and loss was estimated at only 0.3 percent.

Smut. Damage from smut was high in the northern part of Illinois, making the average for the state a little above average. The loss of yield was estimated at 2 percent.

¹ Data on disease prevalence and estimates of losses are based principally on surveys made by G. H. Boewe, Associate Botanist, Illinois State Natural History Survey.

Stalk rots. Stalk-rot damage, particularly down corn, was among the worst on record. Early in September scattered fields were reported in which stalks had rotted badly near the base and were breaking over; examination usually revealed the presence of Diplodia, Gibberella, and Charcoal Rot. Neighboring fields were usually still in good condition, and the cause for the difference was usually not clear. A little later, many more fields had stalk rot and were lodging, primarily because of Gibberella and Charcoal Rot.

Diplodia stalk infection was about average except in northern Illinois, where it was worse than usual but did not cause much lodging. Gibberella stalk infection was at an unusually high level throughout the state, about as high as in 1946 and 1951, the highest years on record.

Charcoal Rot caused the most damage ever known in Illinois. It was particularly bad in the southern half of the state, but there were some badly infected fields all the way to the northern boundary.

Charcoal Rot is aggravated by hot, moderately dry weather. Because that type of weather has been common in a considerable part of Illinois for three consecutive years, the disease has been increasing to unusual importance. It is a soil-borne disease of long standing in Illinois which attacks many crops but appears to do most damage to corn and sorghum. In years with cool summers, it is nearly impossible to find a specimen. Even in years like 1955, the disease may be very destructive in one field but practically absent in a field across the road.

Stalk rot sometimes was worse in highly fertile fields than in adjacent fields of lower fertility. This relationship appears to hold more for Gibberella and Diplodia than for Charcoal Rot.

Little direct relationship between stalk-rot infection and corn-borer attack was noted. The Charcoal Rot fungus usually entered the stalks below the soil surface, although a few cases of above-ground infections were seen. Most of the Diplodia and Gibberella rot started at nodes on the lower end of the stalk but practically none started beneath the surface of the soil. When infected stalks had been entered also by corn borers, their en-

trance was usually higher on the stalk, and in most stalks there was no connection between the corn-borer channels and the lower end of the stalk where the worst rot occurred. At the Brownstown field in south-central Illinois where stalk-rot damage was severe, there had been few corn borers.

SEED TREATMENT TESTS

The seed used for the 1955 seed-treatment test consisted of a composite of three hybrids, which were obtained processed but untreated from commercial producers. They were: Ill. 1091 (WF9×Hy2)(M14×187-2), Ill. 1731A (WF9×C103)(Hy2×Oh7A), and U.S. 13 (WF9×38-11)(L317×Hy). All are adapted hybrids in popular use but unrelated to each other to a considerable extent. The seed was planted at the rate of 16,000 kernels per acre and as second-year corn in a rotation of corn, corn, oats, and clover.

The yields in 1955 were the highest ever obtained in these tests although this test was planted in the same rotation and received the same management as in previous years. Another unusual fact was that the first planting emerged from the soil in the same number of days (six) as the last planting. The middle planting emerged in five days. Yields decreased consistently with delay in planting.

The seed treatment gave highly significant increases in all three plantings. There were no significant interactions between treatment and planting date. The average of all three plantings showed some highly significant differences between treatments.

Increases in stand resulting from the treatment were greatest in the last planting, but the greatest increases in yield were in the first planting. Evidently the early planting was able to make better use of the additional stand and vigor that resulted from seed treatment.

Thiram and Captan compounds from several manufacturers were used, and in some tests the same compounds from different manufacturers appeared to differ significantly.

When an insecticide to protect the seed against soil-borne insects was added to Thiram and Captan compounds, no in-

TABLE 3.—SEED TREATMENT: Increases in Stands and Acre Yields From Treatment With Chemical Protectants

(Composite tests of three hybrids, Urbana, 1955)

Treatment	Rate per bushel	Field	stand	Acre	yield
Planted May	2, em	erged 6 da	ys later		
None (check). Arasan SF-X* Thiram 75Wb Panorame Arasan Md Captan 75We Orthocide 75! Ortho Seed Guard* Delsan A-Jb TD-31* HL-807! Thioneb-50Wk Average increase.	0z	perct. 85.7 95.0 93.6 94.8 95.4 91.7 92.3 90.5 93.6 95.0 92.9	increase over check 9.3 7.9 9.1 9.7 6.0 6.6 4.8 7.9 9.3 7.2 4.2 7.5	bu. 109.4 123.9 120.5 120.5 125.8 119.3 121.2 119.4 120.6 122.4 119.5	increase over check
Planted May	16, em	erged 5 da	ays later		
None (check). Arasan SF-X. Thiram 75W Panoram. Arasan M. Captan 75W Orthocide 75. Ortho Seed Guard. Delsan A-D TD-31. HL-807. Thioneb-50W Average increase.	34 34 34 34 34 34 34 11/2 11/4 11/2 11/2	89.1 94.6 94.6 92.7 94.8 92.7 96.4 93.4 90.1 94.8 92.5	5.5 5.5 3.6 5.7 3.6 7.3 4.3 4.3 1.0 5.7 3.4	105.5 113.6 114.6 116.6 116.1 111.5 116.8 112.4 114.0 113.2 115.5 112.0	8.1 9.1 11.1 10.6 6.0 11.3 6.9 8.5 7.7 10.0 6.5 8.8
Planted May	26, em	erged 6 da	ays later		
None (check) Arasan SF-X Thiram 75W Panoram Arasan M Captan 75W Orthocide 75. Ortho Seed Guard Delsan A-D TD-31. HL-807. Thioneb-50W Average increase	344 344 344 344 344 11/2 11/4 11/2 11/2	81.4 93.9 88.1 90.5 90.3 90.5 92.5 90.9 91.3 90.3 88.7	12.5 6.7 9.1 8.9 9.1 11.1 9.5 9.9 8.9 7.3 9.3	99.6 109.6 105.1 107.2 108.0 105.5 110.2 105.6 109.6 106.8 112.0 105.5	10.0 5.5 7.6 8.4 5.9 10.6 6.0 10.0 7.2 12.4 5.9 8.2
Average of	all thr	ee plantin	g dates		
None(check) Arasan SF-X Thiram 75W Panoram Arasan M Captan 75W Orthocide 75 Ortho Seed Guard Delsan A-D TD-31 HL807. Thioneb-50W		85.4 94.5 92.1 92.7 93.5 91.6 93.7 91.8 91.8 92.7 90.4	9.1 6.7 7.3 8.1 6.2 8.3 6.2 7.4 6.4 7.3 5.0	104.8 115.7 113.4 114.8 116.6 112.1 116.0 112.5 114.7 114.1 116.7	10.9 8.6 10.0 11.8 7.3 11.2 7.7 9.9 9.3 11.9 7.5
Least significant difference at 5- percent level Least significant difference at 1-		2.2	2.2	2.9	2.9
percent level		2.9	2.9	3.8	3.8

^{*,} b, ° Active ingredient 75 percent thiram. d 75 percent thiram plus 2 percent methoxychlor *, 175 percent captan. d Captan 50 percent plus lindane 16.5 percent. d Thiram 60 percent plus dieldrin 15 percent. d Thiram 50, 2 percent, dieldrin 18.8 percent. d Captan 50 percent plus dieldrin 17 percent. Polyethylene thiuram sulfide 50 percent.

* d, h E. I. du Pont de Nemours & Co., Wilmington, Delaware.
* d, h E. I. du Pont de Nemours & Co., Wilmington, Delaware.
* d, h E. I. du Pont de Nemours & Co., Wilmington, Delaware.
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* h, h Naugatuck, Connecticut.
* d, h E. I. du Pont de Nemours & Co., Wilmington, Delaware.
* h, h Naugatuck, Connecticut.
* h, h N

crease in yield or stand resulted. Similar results were obtained in 1954, so the value of using insecticides in this manner appears doubtful. In cold tests, formulations containing dieldrin actually caused lower stands than the same fungicide without the insecticide. No harmful effects were noted in these field tests, in which germinating conditions were a little better than average, especially for the early planting, and very much better than in the cold test.

MEASURING PERFORMANCE

The entries of the 1955 test are listed in the tables in alphabetical order. It is hoped this arrangement will reduce the emphasis often placed on yield alone.

Yield of grain. To determine shelling percentage, all the ears from one replicate of each entry were shelled immediately after harvest. From the well-mixed shelled corn one sample was taken to determine the percentage of moisture at harvest.

The total acre-yield was calculated as shelled corn containing 15.5 percent moisture, the upper limit allowable in No. 2 corn. The total yield thus obtained for the DeKalb test was adjusted according to the procedure outlined by Cochran for randomized lattice-square designs.²

Erect plants. The percentage of erect plants in each plot of each entry on each field was estimated at the time of harvest. Lodging may have been due to rootworm damage, weak or rotted roots, corn-borer damage, stalk rots, or weak stalks. Stalks broken above the ear were not considered lodged.

Dropped ears. At harvest time, the number of dropped ears in each plot was recorded in the DeKalb, Galesburg, Urbana, and Carbondale tests. Ear-dropping may have resulted from European cornborer damage or from other causes. There were very few dropped ears at Brownstown, and so data on this characteristic were not recorded. The percentage of dropped ears was calculated by dividing the number of dropped ears in a given plot by the number of plants in that plot.

Stand. A count was made in late summer, at all fields, of the number of missing hills and number of missing plants in each plot of

¹ All moisture determinations were made with a Steinlite or a Radson moisture tester.

² Cochran, W. G. "Some Additional Lattice-Square Designs." *Iowa Agr. Exp. Sta. Res. Bul. 318.* May, 1943.

each variety. It is assumed that missing hills were due to some factor other than the hybrid itself. Yields were corrected for missing hills by the following adjustment:

Ear weight in field
$$\times \left(1 + \frac{\text{missing hills}}{\text{hills present}} \times .6\right) = \text{adjusted ear weight.}$$

The percent stand is based on the total number of missing plants in relation to the number that would have been present if all the kernels had produced plants. Stand differences may be due to poor germination, to disease, insect, or rodent destruction, or in some cases to destruction in cultivation.

Readers are urged to keep in mind these two things when comparing the performance of hybrids on any one field:

- 1. Small differences in any one year do not necessarily indicate that one hybrid is inherently superior to another. In comparing the performance of two hybrids, figures may be obtained representing the range which differences between two entries must exceed before they can be considered significantly different. The method used in determining this value is called the "Multiple Range test." This method considers the number of entries that fall within the range as well as the variability of the test. It has been used in presenting the data from the five main tests discussed in this bulletin (Tables 4, 5, 6, 7, and 8). In each of these tables, the performance of the highest-yielding hybrid and of all entries not significantly different from it in yield are shown in boldface type. For each characteristic other than yield, the "difference necessary for significance" or "least significant difference" has been computed in the conventional manner.
- 2. Tests covering three years (see upper part of yield tables) give more reliable results than those covering only one year. The fact that a hybrid does not appear in the summary is, however, nothing against it its absence merely means that 1955 was the first year it was tested or that it missed one year of the series.

¹ Duncan, D. B. "Multiple Range and Multiple F Tests." Biometrics 11, (1), 1-43. 1955.

Table 4. - NORTHERN ILLINOIS: DeKalb

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

1100 0.511110111111111111111111111111111			-52-57		
Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
SUMMARY	: 1953-	-1955			
Hulting 238. P.A.G. 234. Illinois 1091A (Dittmer). Sieben S-340. Holmes 11A. Munson M5.	bu. 109.7 105.5 105.4 105.1 104.6 104.3	perct. 21.4 21.2 22.1 22.9 20.4 21.9	perct. 93 94 95 95 95 95	perct. 91 87 87 92 88 89	perct.
Producers 510. P.A.G. 277. Munson M77. P.A.G. 244. Bear OK-28. Frey 410.	103.9 103.6 103.2 103.2 103.1 102.9	21.2 20.7 22.4 21.1 21.8 21.8	95 90 92 91 88 96	89 85 86 89 88	
Hulting 240 Nichols 75A Crow's 402 Pioneer 325 Pioneer 347 Stiegelmeier S-379	102.4 102.4 101.9 101.6 101.4 101.4	21.4 22.0 21.6 22.1 20.7 19.1	95 94 94 96 91 94	89 90 82 90 88 90	• • • • • • • • • • • • • • • • • • • •
Ainsworth X-12 Huebsch 81 Sieben S-440E Funk G-16A Doubet D-45 Sieben S-450 Illinois 101 (Huebsch)	101.3 100.8 98.1 98.0 97.8 97.8	21.2 21.6 20.8 21.1 21.6 19.6 21.9	97 94 94 94 96 96 93	87 89 85 84 83 85 88	• • • • • • • • • • • • • • • • • • • •
Huebsch 24. Tiemann T-61 Crow's 260. Funk G-77A. Producers 315.	97.4 97.4 97.3 97.2 97.2	19.5 21.7 20.6 20.9 21.2	95 96 94 95 91	85 90 85 83 87	• • • • • • • • • • • • • • • • • • • •
Moews 14. Nichols 5B. Keystone 44. Frey 425. Sieben S-560. Crow's 487.	96.6 96.6 96.4 96.0 95.9 95.7	20.4 21.6 20.7 23.0 21.1 20.0	93 94 95 94 96 95	84 90 81 88 80 82	•••
Producers 314. Crow's 432 DeKalb 406. DeKalb 455. Moews 14E. Moews 86. Average of all entries.	95.6 95.0 94.7 92.3 87.1 86.8 99.3	19.9 22.1 22.6 22.4 19.3 19.1 21,2	91 97 94 92 93 95	85 87 88 85 90 88	• • • • • • • • • • • • • • • • • • • •
Difference necessary for significance	11.4	2.4	4.8	8.4	• • • •
1955 RE	SULTS	\$			
Ainsworth X-12. Bear OK-28. Bear OK-414. Crow's 260.	80.3 82.4 90.8 84.9	23.9 27.7 23.8 23.8	94 80 93 88	88 89 92 86	8.6 5.9 2.3 2.8
Crow's 402. Crow's 432. Crow's 487.	93.5 80.9 89.3	26.3 23.9 21.5	96 91	81 86 96	1.7 2.8 3.6
DeKalb 406 DeKalb 409 DeKalb 410 DeKalb 414 DeKalb 415 DeKalb 415 DeKalb 455 DeKalb 459 DeKalb 627 DeKalb 627 DeKalb 620 Doubet D-25E	79.0 91.7 91.9 80.4 86.7 70.3 96.5 90.1 91.3 82.4	26.3 24.3 25.3 22.1 24.0 29.6 23.8 26.0 24.0 23.8	90 86 88 91 86 89 83 92 83	94 93 90 92 90 88 92 84 90	6.8 2.6 4.4 2.6 3.1 3.7 .5 3.0 2.7
Doubet D-45	91.3	24.8	94	89	5.6

Table 4. — NORTHERN ILLINOIS: DeKalb — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1955 RESULTS	— cor	cluded			
Frey 410. Frey 425. Funk G-16A. Funk G-77A.	bu. 94.1 78.4 81.8 84.1	perct. 27.6 29.5 25.6 25.4	perct. 91 91 89 89	91 92 91 88	perct. 1.7 6.1 1.9 4.0
Graham G.C. 711 Holmes 11A. Holmes 17A.	80.6 92.4 93.3 84.3	29.0 23.9 23.6 20.2	83 91 84 92	85 92 87 83	1.1 2.6 1.2 3.2
Huebsch 24 Huebsch 81 Hulting J-41 Hulting 238 Hulting 240 Hulting 381	87.8 72.3 94.8 83.5 73.6	25.2 25.3 26.3 25.4 25.6 21.9	92 96 87 93 90	90 93 90 89 90	3.5 3.9 2.3 6.9 1.7
Illinois 21 (Mountjoy). Illinois 101 (Huebsch). Illinois 1091A (Dittmer). Illinois 1280 (Coldwater). Illinois 1863 (Huebsch). Illinois 1902A (Station).	86.8 77.7 83.8 86.4 78.2 69.5	25.1 23.1 24.0 25.4 26.3 23.1	94 86 89 88 93 83	90 87 91 86 86 94	5.6 4.6 1.1 2.2 3.6 2.7
Keystone 44	83.1	23.8	88	87	5.4
Moews 14 Moews 14 E. Moews 14 E. Moews 14 DR Moews 15 Moews 15 Moews 86 Moews 5059 Moews 5060 Moews 5060 Moews 5063 Munson M55 Munson M77	85.5 63.7 72.2 86.4 84.7 75.7 68.8 80.7 80.3 79.2 84.4 87.2	23.8 22.3 22.9 26.0 24.4 25.9 22.7 23.5 27.9 26.5 25.3 25.4	90 84 87 94 90 88 88 93 92 93 82 82	93 91 87 88 93 81 92 84 97 85 88	9.5 7.6 7.5 .7 2.7 1.4 5.6 10.0 9.6 6.0 4.0 5.8
Nichols 5B	79.9 97.0 84.5	26.2 26.2 25.6	89 89 88	96 89 90	$\frac{2.1}{1.8}$
P.A.G. 222 P.A.G. 234 P.A.G. 234 P.A.G. 244 P.A.G. 253 P.A.G. 277 P.A.G. 8401 Pioneer 325 Pioneer 345 Pioneer 347 Pioneer 347 Pioneer 314 Producers 314 Producers 315 Producers 316 Producers 510 Producers 510 Producers E6450 Producers E6451	91.2 95.0 85.0 81.2 88.0 85.6 84.1 95.8 98.0 81.0 88.0 88.0 88.8 84.5 88.8	22.9 25.1 25.7 23.5 23.2 24.3 24.8 29.0 23.6 22.0 23.6 22.0 26.5 24.4 26.9	89 89 81 88 75 89 92 79 93 82 83 92 91 91 88	89 88 88 87 88 94 93 89 89 89 86 89 92 85 93 87	6.3 2.2 4.0 2.6 5.0 3.2 6.9 1.7 9.0 4.8 4.8 4.8
Sieben S-340 Sieben S-440E Sieben S-450 Sieben S-500 Stewart S-56 Stewart S-66 Stewart S-66 Stewart S-68 Stewart S-68 Stewart S-68 Stewart S-68 Stewart S-68	86.1 85.8 88.4 87.4 95.7 94.9 87.9 85.3 81.7 91.2	26.3 24.0 21.4 24.7 25.1 26.8 29.0 22.0 21.2 26.9	92 88 93 91 87 84 96 91 94 84	89 83 89 89 84 86 84 87 94 83	5.0 1.7 4.4 2.8 1.1 3.5 5.3 1.7 9.7
Tiemann T-61. Tiemann T-68. Average of all entries. Difference necessary for significance.	79.7 84.8 84.7 11.3	25.3 25.3 24.8	91 84 89 7.8	87 98 89 6.5	1.7 8.0 4.0 4.4

Table 5. - WEST NORTH-CENTRAL ILLINOIS: Galesburg

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

not significantly force in yield are shown in bordade eyper						
Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears	
SUMMARY	: 1953	-1955				
	bu.	perct.	perct.	perct.	perct.	
Holmes 39 Pioneer 313B	115.3 110.1	21.5 21.4	84 67	87 89		
Tiemann T-78. Schwenk S-24.	106.4 105.2	19.8 20.0	86 84	91 92		
Schwenk S-34	105.1	20.1	91	92		
Funk G-95 Null 83	105.0 104.4	20.4 20.9	85 89	88 85		
Funk G-95A	104.0	20.4	87	87		
Munson M5. Illinois 1570a.	103.9 102.1	18.5 19.5	84 82	91 90		
Crow's 407. Producers 940.	$101.9 \\ 101.5$	$\frac{19.7}{19.8}$	88 88	89 89		
Illinois 21 (Dittmer)	100.7	20.3	89	92		
Bruns P-37. Producers 900.	$\frac{100.6}{100.4}$	$\frac{20.0}{19.9}$	78 84	$\frac{85}{91}$		
DeKalb 847. Sieben S-320.	$\frac{100.3}{100.2}$	$\frac{20.4}{18.7}$	86 88	91 90		
Moews 524.	99.9	20.2	92	91	• • •	
Moews 520. P.A.G. 403.	$\frac{99.1}{99.0}$	$\frac{20.6}{21.9}$	89 94	84 91		
Sieben S-340	99.0	$\frac{18.1}{21.7}$	84	88		
Bear OK-24 Morton M-303	$98.9 \\ 97.8$	20.8	86 91	93 90		
Ainsworth X-21	96.5 96.0	18.5 20.0	83 90	92 87	• • •	
P.A.G. 303	95.9	19.5	90	90		
Huey H-23. Huey H-235.	$\frac{95.8}{95.5}$	$\substack{20.0 \\ 21.0}$	84 87	87 91		
Hulting 102. Crow's 608.	$94.6 \\ 93.9$	$\substack{19.4\\20.0}$	88 89	91 84	• • •	
Crow's 402. Tiemann T-61.	86.9 86.9	$\frac{18.8}{19.3}$	87 84	83 91		
Average of all entries	100.1	20.0	86	89		
Difference necessary for significance	13.0	2.3	7.5	5.4	• • •	
1955 RES	SULTS	}				
Ainsworth X-12.	91.6	24.3	95	94	5.3	
Ainsworth X-14-3. Ainsworth X-21.	$\frac{101.0}{98.4}$	$\frac{25.2}{19.2}$	92 86	89 92	$^{0}_{2.7}$	
Appl A-130	$\frac{115.2}{115.1}$	$\substack{23.8\\26.3}$	$\frac{93}{92}$	97 93	$^{.9}_{3.4}$	
Appl A-259	105.1	21.4	96	79	0	
Bear OK-24. Bear OK-417.	$\frac{105.2}{107.8}$	$\substack{26.0\\23.1}$	$\frac{98}{92}$	94 86	0	
Bruns P-37	101.4	22.4	84	77	4.9	
Crow's 402. Crow's 407.	$\frac{86.5}{107.9}$	$\substack{21.2\\22.2}$	$\frac{95}{92}$	$\frac{84}{91}$	0	
Crow's 608. Currens 200.	101.3 101.4	$\frac{23.4}{24.1}$	96 91	86 89	1.2	
DeKalb 630	107.5	26.7	95	98	.8	
DeKalb 820 DeKalb 837	121.1 113.4	23.1 23.9	94 96	92 89	.9 2.0	
DeKalb 847. DeKalb 852.	$\frac{114.0}{98.7}$	21.8 24.3	93 98	91 65	$\frac{1.0}{1.2}$	
DeKalb 875	102.8	26.1	93	81	.9	
Doubet D-25. Doubet D-41.	$106.8 \\ 112.4$	$\frac{25.7}{23.8}$	92 96	92 96	$\frac{1.8}{3.5}$	
Funk G-95.	$\frac{118.7}{112.3}$	24.5 24.1	93 93	94 89	0 2.9	
Funk G-95A	112.3	24.1	90	09	2.9	

^{*} Average of Illinois 1570 (Station) 1953, Illinois 1570 (Graham) 1954, and Illinois 1570 (Dittmer) 1955.
(Table is concluded on next page)

Table 5. — WEST NORTH-CENTRAL ILLINOIS: Galesburg — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears		
1955 RESULTS — concluded							
Graham G.C. 720. Graham G.C. 870. Graham G.C. 880.	bu. 101.7 110.2 107.2	perct. 24.6 26.1 19.2	perct. 98 85 98	perct. 89 93 89	perct. .9 1.8 4.6		
Holmes 39 Holmes 47 Huey H-23 Huey H-235 Hulting 102 Hulting 380B Hulting 680.	129.7 104.8 94.9 104.6 99.7 119.7 108.6	24.9 22.4 24.3 24.6 21.6 21.2 23.1	87 92 90 93 86 85 95	87 84 83 89 94 94	5.6 2.2 5.4 0 .9 0		
Illinois 21 (Dittmer). Illinois 1091 (Mountjoy). Illinois 1570 (Dittmer). Illinois 1831 (Station).	116.1 110.2 113.3 111.9	22.7 23.8 23.5 24.1	93 89 87 92	98 92 92 93	$3.4 \\ 1.0 \\ 1.9 \\ 2.9$		
Keystone 48 Moews 520 Moews 523 Moews 524 Moews 550 Moews 5661 Moews 5062 Morton M-12A Morton M-303 Munson M5 Munson M13	110.6 104.8 101.6 109.0 104.8 102.7 114.0 106.4 103.4 105.0 96.8	23.9 24.5 24.6 22.2 19.9 21.1 22.4 23.3 24.9 20.4 23.0	94 88 88 96 95 91 93 95 95 91 86	91 85 88 94 87 90 92 92 93 92 83	.9 .9 6.0 3.5 3.8 2.7 1.0 2.9 5.3 .9		
Null 68 Null 83 P.A.G. 303 P.A.G. 347 P.A.G. 347 P.A.G. 383 P.A.G. 401 P.A.G. 401 P.A.G. 403 Pioneer 301B Pioneer 313B Pioneer 313B Pioneer 316 Pioneer 329 Pioneer 6727 Producers 13-1 Producers 510 Producers 717 Producers 510 Producers 900 Producers 940 Producers E6450 Producers E6451	110.5 115.5 102.3 109.5 1109.5 1109.1 107.2 119.3 119.7 107.1 118.5 119.9 113.2 112.2 112.3 113.6 100.4	22.8 24.3 21.8 21.2 23.9 24.8 27.4 21.1 25.2 23.5 24.9 24.5 24.6 21.1 21.9 22.8 25.2	96 93 98 91 95 95 96 94 96 87 89 95 93 89 88 91 87	91 93 87 85 93 94 94 90 82 87 92 93 89 97 94 93 89 95	0 2.7 2.0 1.0 4.4 3.5 7.0 3.7 2.7 1.8 1.8 1.0 4.4 9		
Schwenk S-24. Schwenk S-27A Schwenk S-34 Sieben S-320. Sieben S-360 Sieben S-360 Sieben S-440 Smiley M-8. Stewart S-60 Stewart S-130 Stiegelmeier S-340. Stiegelmeier S-340. Stiegelmeier S-400 Super-Crost 660	114.7 107.5 113.0 118.3 112.6 113.3 95.6 91.8 104.4 105.8 99.2 101.5	23.5 24.5 23.5 19.5 20.7 23.9 20.4 22.3 25.4 23.8 24.1 24.8 22.4	92 89 96 94 91 98 85 98 95 83 96 95	94 95 93 91 90 94 84 78 93 93 93 96	2.6 0 2.7 1.9 .8 3.0 7.2 1.9 1.8 1.7		
Tiemann T-61 Tiemann T-68 Tiemann T-78 Tiemann T-78 Trisler T-19B Trisler T-32 Trisler T-32B Trisler T-33B Trisler T-33 Whisnand 830	89.9 115.9 112.2 111.0 104.9 114.2 113.4 109.4	22.4 21.8 22.0 24.1 24.3 25.5 22.4 23.7 24.2	92 95 93 91 94 94 88 96	93 99 91 81 88 94 93 85	2.6 6.8 1.9 1.4 1.9 2.8 .9 2.0		
Average of all entries Difference necessary for significance	108.2	23.3	92 7.7	90 13.6	2.0 4.8		

Table 6. - CENTRAL ILLINOIS: Urbana

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
SUMMARY	: 1953-	-1955			
Holmes 39	bu. 115.2 112.6 112.2 110.5 110.5 109.9	perct. 17.0 16.8 17.2 16.1 16.7 15.7	perct. 73 88 84 80 86 85	94 94 93 89 96	perct.
Appl A-130. Frey 692. Funk G-95A. Pioneer 313B. Munson M119. P.A.G. 173.	108.5 108.5 108.2 107.9 107.7	15.6 16.3 15.9 15.9 15.9	83 81 84 73 82 83	90 92 93 94 89	
Holmes 13 Tiemann T-72. Dlinois 1570a. Schwenk S-24. Trisler T-32B. Frey 892.	107.5 107.5 106.9 106.7 106.7	16.7 15.6 16.1 16.3 16.9 16.2	86 88 76 80 86 86	95 89 93 92 88 90	
Pioneer 302 Morton M-70 Crow's 825 AES 805 ^b Producers 940 Trisler T-32	106.1 105.7 105.6 105.2 104.8 104.8	17.4 16.0 15.5 16.9 15.4 16.1	78 78 91 91 76 83	92 92 88 93 93	
U.S. 13 (Stone). Canterbury 404. Tiemann T-78. Ainsworth X-14-3 Producers 13-1 Frey 645.	104.6 104.6 104.4 104.1 104.1 103.4	15.8 15.5 15.2 16.2 16.5 15.6	81 80 86 81 82 82	91 93 92 91 92 93	
Funk G-91. P.A.G. 403. Crow's 608. Crow's 638. Illinois 21 (Mountjoy). Illinois 1246°. Whisnand 804. Moews 523.	103.0 102.6 102.3 101.2 101.0 100.4 100.1 99.8	16.8 16.2 15.6 15.3 15.3 15.5 16.8	87 87 83 93 81 80 82 77	88 94 92 89 88 93 92	
Moews 524. Doubet D-43. Producers 900. Keystone 38A. Doubet D-41. DeKalb 875. DeKalb 847. Average of all entries.	99.3 99.2 98.9 98.8 98.6 98.4 98.1 104.9	16.1 16.9 15.7 16.6 16.2 16.7 15.3	82 87 83 86 90 87 86 83	93 91 91 86 90 93	
Difference necessary for significance	11.3	1.2	10.5	6.2	

^a Average of Illinois 1570 (Stone) 1953, Illinois 1570 (Mountjoy) 1954, and Illinois 1570 (Stone)

(Table is continued on next page)

^{1955.}

Average of AES 805 (Stone) 1953 and 1954, and AES 805 (Station) 1955.
 Average of Illinois 1246 (Mountjoy) 1953 and 1954, and Illinois 1246 (Station) 1955.

Table 6. — CENTRAL ILLINOIS: Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1955 RES	SULTS	}			
AES 805 (Station). Ainsworth X-12.	bu.	perct.	perct.	perct.	perct.
	113.6	19.6	82	90	14.8
	103.5	16.5	55	89	7.2
Ainsworth X-13-3a Ainsworth X-14-3 Ainsworth X-21 Appl A-130 Appl A-159	98.3	19.5	59	86	15.6
	97.5	17.1	66	82	6.2
	107.8	17.7	56	86	2.9
	116.5	17.8	66	90	11.9
Bear OK-24 Bear OK-69 Bear OK-72 Bear OK-96	105.8	18.9	76	96	16.5
	113.9	18.3	57	87	2.8
	113.6	17.9	67	96	3.5
	115.5	18.4	61	88	13.0
Canterbury 400	105.0	17.6	62	93	6.1
	109.7	17.9	52	91	7.2
	119.9	18.8	73	92	3.6
	106.7	17.7	57	93	10.8
	101.9	17.0	84	84	3.1
	103.6	16.4	78	90	8.2
	116.5	16.9	56	81	6.0
DeKalb 816 DeKalb 817A DeKalb 847 DeKalb 852 DeKalb 875 DeKalb 876 Doubet D-41 Doubet D-43	99.6 102.0 95.1 103.6 104.9 109.8 98.0 96.4	16.4 17.8 17.7 17.7 19.8 18.7 18.2	64 48 66 63 70 65 7 9 68	85 87 88 82 92 92 95 88	8.9 3.4 1.9 9.2 8.0 8.2 4.3 13.3
Frey 645.	102.9	17.0	64	88	9.5
Frey 692.	116.2	18.2	52	90	4.3
Frey 892.	109.3	17.3	66	87	8.6
Funk G-91.	94.0	18.9	69	85	10.9
Funk G-95.	107.1	19.0	55	86	6.8
Funk G-95A.	117.9	16.8	59	91	2.6
Graham G.C. 720	106.0	18.3	60	92	9.0
Graham G.C. 870	115.2	17.7	49	94	6.2
Graham G.C. 880	112.0	16.9	55	90	.9
Griffith 125-2	109.8	18.9	64	93	5.3
Holmes 13. Holmes 39. Hulting 380B. Hulting 680.	103.2	18.0	68	92	8.8
	121.5	18.3	30	94	3.6
	113.0	17.7	52	94	8.3
	106.0	17.5	45	93	4.6
Illinois 21 (Mountjoy) Illinois 1246 (Station) Illinois 1570 (Stone) Illinois 1896 (Station) Illinois 1919 (Station) Illinois 6021 (Station)	100.6 102.9 108.4 98.3 112.8 108.6	18.0 16.9 19.0 18.0 17.8 17.7	51 53 50 61 62 56	76 88 87 91 87	7.3 5.8 7.6 11.9 1.8 17.6
Keystone 38A	98.7	17.7	69	87	6.6
Moews 520. Moews 524. Morton M-6. Morton M-70. Mountjoy M-64 Munson M15. Munson M119.	120.6	18.0	56	95	4.5
	107.4	18.3	45	90	4.7
	110.2	17.7	55	93	7.9
	110.5	21.5	47	94	10.8
	97.0	17.4	47	84	6.0
	103.8	17.3	32	95	10.5
	113.0	17.6	53	92	2.7
	110.6	18.1	60	77	9.8

^a Ainsworth X-13-3 inadvertently omitted from 1955 test.

(Table is concluded on next page)

Table 6. — CENTRAL ILLINOIS: Urbana — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears			
1955 RESULTS — concluded								
P.A.G. 173 P.A.G. 351 P.A.G. 383 P.A.G. 401 P.A.G. 403 P.A.G. 403 P.A.G. 404 Pioneer 301B Pioneer 302 Pioneer 313B Pioneer 316 Pioneer 320 Pioneer 372 Producers 13-1 Producers 900 Producers 940 Producers 1018	bu. 111.5 96.7 102.9 114.1 119.9 123.5 106.1 117.3 118.7 106.1 117.9 99.2 111.8 102.7	perct. 18.1 17.6 17.3 16.6 17.1 19.4 16.6 19.6 18.9 17.1 17.9 18.2 17.7 18.1 17.0	9ercl. 60 58 64 62 68 69 75 55 36 58 59 40 65 60 38 53	perct. 88 74 86 89 93 97 88 83 93 89 94 89 88 87 96	perct. 14.1 4.6 7.4 4.5 6.3 1.8 10.4 9.4 11.4 4.7 5.5 11.3 6.5 4.4 12.7			
Schwenk S-24 Schwenk S-34. Southern States Mohawk Southern States Pocohontas Stiegelmeier S-300 Stiegelmeier S-340. Stiegelmeier S-400 Stiegelmeier S-400. Super-Crost 880.	102.5 112.5 90.8 106.3 93.4 96.5 94.1 99.5	19.4 18.2 16.2 17.1 18.7 19.3 20.1 18.4	53 53 67 79 65 61 82 57	86 94 76 80 93 92 90	10.8 9.7 5.4 5.5 8.1 9.2 13.0 8.0			
Tiemann T-72. Tiemann T-78. Trisler T-19B. Trisler T-32. Trisler T-32B. Trisler T-33. Trisler T-33B. Trisler T-45.	109.3 104.6 108.3 111.8 111.0 113.0 117.3 107.0	18.0 16.5 18.2 17.4 19.0 17.7 18.1	73 67 55 56 67 66 67 53	82 87 73 91 87 91 89	10.8 8.5 6.8 11.1 1.8 4.6 12.2 12.5			
U.S. 13 (Stone). Whisnand 804. Whisnand 830. Whisnand 851. Average of all entries. Difference necessary for significance.	95.6 116.4 124.2 107.3 19.6	17.9 17.6 16.7 18.9 18.0	58 57 82 76 60 19.6	90 90 83 89 12.9	11.8 6.5 .9 2.8 7.6 7.9			

Table 7. - SOUTHERN ILLINOIS: Brownstown

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1953-1	955			
Tiemann T-78 Munson M119 Funk G-91 Tiemann T-72 Producers 13-1 Canterbury 400	bu. 54.4 53.9 53.6 52.6 51.8 51.7	perct. 13.4 14.2 15.3 14.7 15.0 14.0	perct. 75 69 72 71 71 70	perct. 91 93 89 95 92 95
Haudrich 13. Producers 946 Ainsworth X-14-3 Canterbury 420. Ainsworth X-13-3 Bear OK-72B.	51.0 51.0 50.8 50.7 50.4 50.2	15.3 14.3 15.2 14.2 14.5 14.8	77 76 76 70 70 75	96 84 90 94 92 97
Bear OK-50A. Canterbury 126. P.A.G. 383. Bruns P-38. Crow's 805. Illinois 1570 (Bruns).	49.1 49.0 48.5 47.9 47.8	14.7 14.0 14.7 12.9 14.2 14.6	73 70 70 72 71 70	91 92 91 85 90 90
Producers 1018. Crow's 825. U.S. 13 ^a . P.A.G. 403. P.A.G. 631(W). Producers 1050.	47.5 47.2 45.8 45.8 45.8 45.6	14.5 14.1 13.8 14.6 16.6 13.8	72 73 70 74 62 66	91 83 84 94 91
Trisler T-32B. Moews CB 60A. Moews CB 70A. DeKalb 875. Pioneer 6727 Pioneer 302.	45.4 45.3 45.3 44.5 44.3 42.9	15.5 15.9 14.0 14.3 16.1 16.2	71 69 76 74 69 70	83 86 85 90 89
Pioneer 316. AES 805 ^b Haudrich 784. Illinois 1656 (Mountjoy). Haudrich 200. Whisnand 851 P.A.G. 620(W). Average of all entries. Difference necessary for significance.	42.3 41.5 40.9 40.8 40.6 39.3 35.9 47.0 14.2	15.6 15.2 17.4 14.1 16.2 17.9 17.6 15.1 2.2	75 72 72 71 70 71 65 71 7.8	92 85 89 90 91 90 90 89 7.7
1955 RESULTS				
AES 805 (Station) Ainsworth X-13-3 Ainsworth X-14-3 Ainsworth X-14-4 Appl A-130	51.0 60.5 56.6 62.8 63.7	17.4 16.3 17.7 17.6 15.9	36 20 38 17 28	79 90 93 92 90
Bear OK-50A Bear OK-69. Bear OK-72B Bear OK-96 Bruns P-38	67.2 55.9 66.6 56.3 52.4	15.0 16.0 16.4 17.0 13.6	28 50 40 27 27	86 91 97 93 76
Canterbury 126. Canterbury 400. Canterbury 420. Crow's 805. Crow's 825.	62.5 69.5 64.0 63.3 62.9	16.5 15.5 15.8 15.8 16.6	23 21 28 28 27	93 96 94 94 81

Average of U.S. 13 (Plymouth) 1953, U.S. 13 (Graham) 1954, and U.S. 13 (Station) 1955.
 Average of AES 805 (Station) 1953, AES 805 (Graham) 1954, and AES 805 (Station) 1955.

Table 7. — SOUTHERN ILLINOIS: Brownstown — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1955 RESULTS — conc	luded			
DeKalb 817Å. DeKalb 852 DeKalb 875. DeKalb 876. DeKalb 898. DeKalb 925(W).	bu. 57.4 46.9 59.8 56.8 68.2 64.9	perct. 16.8 18.0 16.9 17.5 19.4 18.1	perct. 43 16 38 35 30 16	perct. 84 78 89 97 93 98
Funk G-91 Funk G-95A. Graham G.C. 870. Graham G.C. 880.	80.8 64.1 55.1 50.6	16.3 17.0 17.7 15.7	26 44 29 38	93 84 91 92
Haudrich 13. Haudrich 21. Haudrich 200. Haudrich 784.	65.8 71.6 61.3 56.7	16.9 15.4 17.3 17.0	44 35 30 31	96 88 91 89
Illinois 1511 (Appl). Illinois 1570 (Bruns) Illinois 1656 (Mountjoy). Illinois 1850 (Station). Illinois 1852 (Station). Illinois 1857 (Station).	61.3 49.3 39.7 32.6 71.8 50.0	16.5 15.2 15.9 20.4 16.8 17.6	15 28 26 22 48 15	91 92 86 93 80 86
Keystone 107(W)	56.5	21.6	17	90
Moews CB 60A. Moews CB 60A. Moews CB 70A. Moews CB 90A. Munson M119.	49.5 59.3 67.0 57.9 70.1	17.4 18.2 16.0 16.9 15.2	29 10 42 24 20	79 76 80 93 98
P.A.G. 173. P.A.G. 383. P.A.G. 401. P.A.G. 403. P.A.G. 404. P.A.G. 620(W) P.A.G. 631(W) Pioneer 302. Pioneer 312A. Pioneer 313B. Pioneer 316. Pioneer 332. Producers 13-1 Producers 13-1 Producers 13-1 Producers 940. Producers 946. Producers 946. Producers 1018. Producers 1050	55.1 62.2 58.3 50.7 44.9 69.4 55.9 69.0 56.6 50.2 55.0 66.9 61.9 71.4 55.1 55.1	15.9 16.2 15.8 16.0 15.1 17.3 17.6 20.0 19.8 19.9 18.5 17.7 21.7 16.5 18.7 16.5	29 29 26 37 34 14 15 29 32 11 20 23 32 32 32 12	77 97 91 96 94 82 79 87 94 93 79 93 74 86 92
Southern States Potomac. Super-Crost 700A. Super-Crost 840.	41.9 70.5 56.9	17.6 16.3 17.3	20 24 27	94 90 87
Tiemann T-72. Tiemann T-78. Trisler T-32. Trisler T-32B. Trisler T-33. Trisler T-33. Trisler T-34.	71.6 66.9 56.9 48.3 49.4 61.8 54.8	16.0 14.8 16.0 16.9 16.9 22.8	21 34 17 24 19 20 28	94 87 93 76 94 97 86
U.S. 13 (Station)	39.2	16.5	29	69
Whisnand 830. Whisnand 851. Average of all entries. Difference necessary for significance	61.2 46.9 58.7 27.0	16.2 21.8 17.0	45 25 28 18.5	74 87 89 18.

Table 8. — EXTREME SOUTHERN ILLINOIS: Ridgway 1953, Eldorado 1954, Carbondale 1955

(Performance data of highest-yielding hybrid and of all hybrids not significantly lower in yield are shown in boldface type)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Droppe ears
SUMMARY	1953	-1955			
	bu.	perct.	perct.	perct.	perct.
DeKaib 925(W)	95.3	21.1	96	92	
Pioneer 316	93.6	16.9	95	95	
unk G-711	91.9	20.9	91	86	
P.A.G. 631(W)	91.8 90.1	20.1 18.0	96	88	
ioneer 6727iemann T-78	88.1	16.6	94 97	88 93	• • •
Ioews CB 60A	87.2	17.8	95	86	
Whisnand 851	86.7	18.7	96	90	
.S. 13a	86.3	16.8	96	87	
[audrich 126	86.2	16.7	98	86	
row's 825	86.1	. 17.3	98	81	
.A.G. 620(W)	85.6	17.7	95	87	
roducers 1050	85.4 85.0	15.8 18.0	94 96	89 90	
eKalb 898tull 400-W	84.8	17.6	95	87	
loews CB 90A	84.7	17.1	95	85	
ioneer 302	84.0	19.0	97	88	
row's 805	83.2	16.6	94	88	
loews CB 69A	82.7	18.7	93	87	
audrich 13	81.7	17.0	98	91	
(audrich 21	81.7	16.4 17.3	96 96	90 86	
[audrich 10(W)[audrich 200	81.6 80.4	17.5	97	87	
.A.G. 403	78.7	16.0	96	91	
roducers 13-1	77.6	16.6	94	86	
Average of all entries	85.6	17.7	96	88	
Difference necessary for significance	18.5	2.0	5.2	6.2	
1955 RES	ULTS				
	88.2	20.4	97	92	0
insworth X-14-3	88.2 79.3 92.8	20.4 19.4 19.1	97 93 79	92 84 89	0 0 0
insworth X-14-3insworth X-14-4	79.3 92.8	19.4 19.1	93 79	84 89	0
nsworth X-14-3 nsworth X-14-4 ear OK-72A	79.3	19.4	93	84	0
nsworth X-14-3 insworth X-14-4 ear OK-72A ear OK-890	79.3 92.8 81.8	19.4 19.1 20.4	93 79 96	84 89 90	0
nsworth X-14-3. nsworth X-14-4. ear OK-72A. ear OK-890. row's 805.	79.3 92.8 81.8 80.2	19.4 19.1 20.4 20.8	93 79 96 94	84 89 90 86	0 0 0
insworth X-14-3 insworth X-14-4 ear OK-72A ear OK-890 row's 805 row's 825	79.3 92.8 81.8 80.2 79.0	19.4 19.1 20.4 20.8 20.6 21.7	93 79 96 94 85	84 89 90 86 88	0 0 0 0
insworth X-14-3. insworth X-14-4. ear OK-72A. ear OK-890. row's 805. row's 825. eKalb 817A.	79.3 92.8 81.8 80.2 79.0 78.3	19.4 19.1 20.4 20.8 20.6	93 79 96 94 85 98	84 89 90 86 88 78	0 0 0 0 0
insworth X-14-3 insworth X-14-4 ear OK-72A ear OK-800 cow's 805 cow's 825 eKalb 817A eKalb 852 eKalb 875	79.3 92.8 81.8 80.2 79.0 78.3 86.5 62.9 78.3	19.4 19.1 20.4 20.8 20.6 21.7 18.1 20.7 20.0	93 79 96 94 85 98 85 90 79	84 89 90 86 88 78 89 83 86	0 0 0 0 0 0 0
insworth X-14-3 insworth X-14-4 ear OK-72A ear OK-890 cow's 805 cow's 825 ear OK-817A eKalb 875 eKalb 875 eKalb 875 eKalb 876 eKalb 876	79.3 92.8 81.8 80.2 79.0 78.3 86.5 62.9 78.3 78.4	19.4 19.1 20.4 20.8 20.6 21.7 18.1 20.7 20.0 22.7	93 79 96 94 85 98 85 90 79 92	84 89 90 86 88 78 89 83 86 87	0 0 0 0 0 0 1.8 .9 2.7
insworth X-14-3 insworth X-14-4 ear OK-72A ear OK-890 row's 805 row's 825 eKalb 817A ekfalb 852 eKalb 875 eKalb 875 eKalb 875	79.3 92.8 81.8 80.2 79.0 78.3 86.5 62.9 78.3 78.4 79.5	19.4 19.1 20.4 20.8 20.6 21.7 18.1 20.7 20.0 22.7 21.1	93 79 96 94 85 98 85 90 79 92 94	84 89 90 86 88 78 89 83 86 87 90	0 0 0 0 0 0 1.8 2.7 1.0
insworth X-14-3 insworth X-14-4 insworth X-14-4 insworth X-14-4 insworth X-14-4 insworth X-14-4 insworth X-14-4 insworth X-18-8 insworth X-18-	79.3 92.8 81.8 80.2 79.0 78.3 86.5 62.9 78.3 78.4 79.5 96.3	19.4 19.1 20.4 20.8 20.6 21.7 18.1 20.7 20.0 22.7 21.1 24.1	93 79 96 94 85 98 85 90 79 92 94	84 89 90 86 88 78 89 83 86 87 90 89	0 0 0 0 0 0 1.8 .9 2.7 1.0
ES 805 (Station) insworth X-14-3. insworth X-14-4. ear OK-72A. ear OK-890 row's 805 row's 805. reKalb 817A. leKalb 852. leKalb 875. leKalb 875. leKalb 876. leKalb 876. leKalb 898. leKalb 898. leKalb 1002.	79.3 92.8 81.8 80.2 79.0 78.3 86.5 62.9 78.3 78.4 79.5	19.4 19.1 20.4 20.8 20.6 21.7 18.1 20.7 20.0 22.7 21.1	93 79 96 94 85 98 85 90 79 92 94	84 89 90 86 88 78 89 83 86 87 90	0 0 0 0 0 0 1.8 -9 2.7
insworth X-14-3 insworth X-14-4 ear OK-72A ear OK-800 cow's 805 cow's 825 eeKalb 817A eeKalb 852 eeKalb 876 eeKalb 876 eeKalb 898 eeKalb 925(W) eeKalb 1002 eeKalb 4002 eeKalb	79.3 92.8 81.8 80.2 79.0 78.3 86.5 62.9 78.3 78.4 79.5 96.3	19.4 19.1 20.4 20.8 20.6 21.7 18.1 20.7 20.0 22.7 21.1 24.1 22.4	93 79 96 94 85 98 85 90 79 92 94 94 77	84 89 90 86 88 78 89 83 86 87 90 89 85	0 0 0 0 0 0 0 1.8 .9 2.7 1.0 0
insworth X-14-3 insworth X-14-4 ear OK-72A ear OK-800 row's 805 row's 825 eKalb 817A bekalb 875 eKalb 875 eKalb 876 eKalb 875 eKalb 876 eKalb 888 eKalb 925(W) eKalb 1002	79.3 92.8 81.8 80.2 79.0 78.3 86.5 62.9 78.3 78.4 79.5 96.3 79.0	19.4 19.1 20.4 20.8 20.6 21.7 18.1 20.7 20.0 22.7 21.1 24.1 22.4	93 79 96 94 85 98 85 90 79 92 94 94 77	84 89 90 86 88 78 89 83 86 87 90 89 85	0 0 0 0 0 0 0 1.8 .9 2.7 1.0 0

a Average of U.S. 13 (Station) 1953, U.S. 13 (Graham) 1954, and U.S. 13 (Station) 1955.
(Table is concluded on next page)

Table 8. — EXTREME SOUTHERN ILLINOIS: Ridgway 1953, Eldorado 1954, Carbondale 1955 — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears	
1955 RESULTS — concluded						
Haudrich 10(W). Haudrich 13. Haudrich 21. Haudrich 126. Haudrich 200. Haudrich 784.	bu. 83.3 76.3 80.3 93.5 70.5 72.2	perct. 18.6 18.7 18.4 18.8 20.3 20.4	94 97 90 99 95 93	perct. 84 88 86 86 89 91	perct. 0 0 0 1.8 .9 0	
Illinois 1570 (Station). Illinois 1850 (Station). Illinois 1852 (Station). Illinois 1913 (Station). Illinois 1919 (Station).	77.3 67.7 81.7 85.7 87.6	20.6 22.3 21.0 17.5 19.3	81 95 94 99 85	90 89 89 87 92	.9 .9 .9	
Keystone 222	89.7	29.4	93	86	0	
Moews CB 60A. Moews CB 69A. Moews CB 70A. Moews CB 90A.	84.8 72.0 98.2 79.8	21.1 21.2 19.3 20.0	91 83 94 92	82 86 94 79	.9 1.9 0	
P.A.G. 401 P.A.G. 403 P.A.G. 403 P.A.G. 444 P.A.G. 620(W) P.A.G. 631(W) Pioneer 302 Pioneer 312A Pioneer 313B Pioneer 316 Pioneer 332 Pioneer 316 Pioneer 317 Pioneer 318 Pioneer 319	77.2 65.1 66.1 84.4 96.0 66.1 90.6 69.0 87.8 87.6 73.5 69.5 82.2 89.8 88.4	19.5 18.2 21.6 18.1 22.8 20.3 22.9 19.7 21.0 22.8 18.7 18.9 18.9	98 91 96 92 98 97 95 85 90 85 93 84 94 91 87	87 87 88 88 81 92 88 95 88 80 84 91 87	2.6 1.1 0 2.0 0 0 0 0 0 0 0 0	
Stull 100-Y. Stull 100-YA. Stull 102-Y. Stull 102-Y. Stull 400-W. Stull 400-WA. Super-Crost 700A.	75.5 82.8 95.7 102.1 64.9 82.4	18.7 21.7 21.1 20.2 20.9 18.7	93 96 97 89 90	88 84 91 95 88 85	0 0 0 .9 0	
Tiemann T-72 Tiemann T-78 Trisler T-32 Trisler T-32B Trisler T-33B Trisler T-33B Trisler T-33B Trisler T-33B	83.4 85.5 73.5 103.1 83.6 66.4 96.1	18.0 19.6 19.8 21.1 20.6 18.7 23.4	96 97 96 96 90 96 86	87 95 84 91 89 80 94	.8 0 0 1.0 2.2 .9	
U.S. 13 (Station)	77.4	18.8	92	88	.9	
Whisnand 830. Whisnand 851. Average of all entries. Difference necessary for significance.	86.9 91.8 81.7 29.0	20.3 22.2 20.5	96 94 92 9.9	87 87 87 11.6	1.0 0 .5 1.9	

SUMMARY

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In 1955, 252 hybrids were grown on five test fields in Illinois. Growing conditions were generally excellent at all locations, although wet weather delayed planting unduly at Brownstown and Carbondale, and late-season moisture shortages probably caused some reduction in yields at DeKalb, Brownstown, and Carbondale.

1955 yields. The Galesburg field, in western north-central Illinois, had the highest average yield, 108.2 bushels per acre. The average yield at Urbana, in central Illinois, was close behind at 107.3 bushels per acre. Average yields per acre on the other three test fields were: DeKalb, 84.7, Brownstown 58.7, Carbondale 81.7.

The average yield of all hybrids tested was 89.9 bushels. This was nearly 8 percent above the 1954 average, and was the second highest average yield ever recorded in these tests. It has been exceeded only by the record average of 92 bushels in 1948. Only the DeKalb field had a lower average yield than the corresponding test in 1954.

Three-year summaries, 1953-1955. The highest-yielding hybrids in the three-year summaries were the following:

Northen Illinois — Hulting 238, P.A.G. 234, Illinois 1091A (Dittmer), Sieben S-340, Holmes 11A, Munson M-5.

West North-Central — Holmes 39, Pioneer 313B, Tiemann T-78, Schwenk S-24, Schwenk S-34, Funk G-95.

Central — Holmes 39, Canterbury 420, Appl A-159, Funk G-95, Bear OK-72, Canterbury 400.

Southern — Tiemann T-78, Munson M-119, Funk G-91, Tiemann T-72, Producers 13-1, Canterbury 400.

Extreme Southern — DeKalb 925 (W), Pioneer 316, Funk G-711, P.A.G. 631 (W), Pioneer 6727, Tiemann T-78.

Lodging. Approximately 90 percent of the plants in the tests at DeKalb, Galesburg, and Carbondale were erect at harvest. Lodging, mostly in the form of stalk-breakage, was severe at

Urbana and very severe at Brownstown. More than 70 percent of the plants in the Brownstown test were lodged at harvest. Significant differences between hybrids in percentage of plants erect at harvest were observed at all locations.

Moisture. The average moisture content in the grain averaged 20.8 percent for all hybrids tested. Average moisture percentages were below 21 percent at the three southernmost locations, but above 23 percent in both northern tests.

Stand. The average stand obtained for all entries tested was 89 percent.

Disease damage. Stalk rots were severe on the test fields at Urbana and Brownstown, resulting in serious late-season stalk breakage. Only sporadic occurrence of stalk rot was noted on the other three test fields.

Data on disease prevalence and estimates of losses for the state are again included. Charcoal Rot, normally a relatively uncommon disease in the state, caused more damage than ever previously recorded. Diplodia and Gibberella stalk rots also were unusually severe in 1955.

Seed-treatment test. Highly significant increases in yield were observed to result from seed treatment in a test involving three dates of planting. Increases in stand from treatment were greatest in the latest-planted corn, but increases in yield were greatest for the earliest planting date.

The average increase in yield from all treatments was 9.7 bushels, or 9.3 percent.

CONTRIBUTORS OF SEED

AES Hybrids	AES 805 (Ill. Agr. Exp. Sta.)	
Ainsworth Hybrids	Ainsworth Seed Co	. Mason City
Appl Hybrids	. Appl's Hybrid Seed Co	.St. Joseph
Bear Hybrids	Bear Hybrid Corn Co	Decatur, Box 628
Bruns Hybrids	Bruns Šeed Co	. Camp Point
Canterbury Hybrids	Bruns Seed Co	. Cantrall
Crow's Hybrids	Crow's Hybrid Corn Co F. H. Currens Seed Farm	. Milford
Currens Hybrids	. F. H. Currens Seed Farm	. Macomb
DeKalb Hybrids	DeKalb Agricultural Assn	. DeKalb
Doubet Hybrids	E. W. Doubet	. Hanna City
Frey Hybrids	. Frey Hybrid Corn Co	. Gilman
Funk Hybrids	Funk Brothers Seed Co	. Bloomington
Graham Hybrids	Graham Seed Co	.Springfield
Griffith Hybrids	. Griffith Seed Co	. Bloomington
Haudrich Hybrids	Haudrich Hybrid Corn Co	. Belleville
Holmes Hybrids	\ldots Holmes Hybrids \ldots	. Edelstein
Huebsch Hybrids	L. A. Huebsch & Son	. Mundelein
Huey Hybrids	Huey Seed Co	. Carthage
Hulting Hybrids	G. E. Hulting & Son	. Geneseo
	·	
inmois Hybrids	. Ill. 21 (Dittmer Seeds, Carthage; N	nountjoy)
	Ill. 101 (L. A. Huebsch & Son)	
	Ill. 1091 (Mountjoy)	
	Ill. 1091A (Dittmer)	
	Ill. 1246 (Ill. Agr. Exp. Sta.) Ill. 1277 (Nichols)	
		Flyrood)
	Ill. 1280 (A. I. Coldwater & Son, F Ill. 1511 (Appl)	arwood)
	Ill. 1570 (Ill. Agr. Exp. Sta.; Br	uns: Dittmer: R G
	Stone, Pleasant Plains)	ans, Divinci, it. a
	Ill. 1656 (Mountjoy)	
	111. 1000 (1410d111 <u>1</u> 0y)	
	III 1831 1850 1852 1857 (III Agr	Exp. Sta.)
	Ill. 1831, 1850, 1852, 1857 (Ill. Agr	·. Exp. Sta.)
	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch)	
	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021	(Ill. Agr. Exp. Sta.
Keystone Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021	(Ill. Agr. Exp. Sta.
	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta. 101 Choteau Ave., St. Louis Mo.
Moews Corn Belt Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 . Corneli Seed Co	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, Mo. .Boswell, Ind.
Moews Corn Belt Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 . Corneli Seed Co	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, Mo. .Boswell, Ind.
Moews Corn Belt Hybrids Moews Hybrids Morton Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 . Corneli Seed Co	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, Mo. .Boswell, Ind. .Granville .Bowen
Moews Corn Belt Hybrids Moews Hybrids Morton Hybrids Mountjoy Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, Mo. .Boswell, Ind. .Granville .Bowen .Atlanta
Moews Corn Belt Hybrids Moews Hybrids Morton Hybrids Mountjoy Hybrids Munson Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta., 101 Choteau Ave., St. Louis, Mo. Boswell, Ind. Granville Bowen Atlanta Galesburg
Moews Corn Belt Hybrids Moews Hybrids Morton Hybrids Mountjoy Hybrids Munson Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta., 101 Choteau Ave., St. Louis, Mo. Boswell, Ind. Granville Bowen Atlanta Galesburg
Moews Corn Belt Hybrids Moews Hybrids Morton Hybrids Mountjoy Hybrids Munson Hybrids Nichols Hybrids. Null Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, Mo. .Boswell, Ind. .Granville .Bowen .Atlanta .Galesburg .Hebron .Colchester
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, Mo. .Boswell, Ind. .Granville .Bowen .Atlanta .Galesburg .Hebron .Colchester Aurora
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, Mo. .Boswell, Ind. .Granville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids. Pioneer Hybrids. Producers Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co Moews Corn Belt Co., Inc Moews Seed Co Roy A. Morton & Sons Mountjoy Hybrid Seed Co Munson Hybrids Nichols Bros Null Seed Farms Pfister Assoc. Growers, Inc Pioneer Hi-Bred Corn Co. of Ill Producers Seed Co	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City
Moews Corn Belt Hybrids Moews Hybrids Morton Hybrids Mountjoy Hybrids Munson Hybrids Nichols Hybrids Null Hybrids P.A.G. Hybrids Producers Hybrids Schwenk Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co. Moews Corn Belt Co., Inc. Moews Seed Co. Roy A. Morton & Sons. Mountjoy Hybrid Seed Co. Munson Hybrids Nichols Bros. Null Seed Farms Pioneer Hi-Bred Corn Co. of Ill. Producers Seed Co. W. T. Schwenk & Sons	(Ill. Agr. Exp. Sta101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City .Edwards
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids. Producers Hybrids. Schwenk Hybrids. Sieben Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City .Edwards .Geneseo
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids. Producers Hybrids. Schwenk Hybrids. Sieben Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City .Edwards .Geneseo
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids. Producers Hybrids. Schwenk Hybrids. Sieben Hybrids. Smiley Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City .Edwards .Geneseo .Milford
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids. Producers Hybrids. Schwenk Hybrids. Sieben Hybrids. Smiley Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City .Edwards .Geneseo .Milford
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids. Producers Hybrids. Schwenk Hybrids. Sieben Hybrids. Smiley Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co	(Ill. Agr. Exp. Sta101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City .Edwards .Geneseo .Milford .Muncie .2416 N. St.,
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids. Producers Hybrids. Schwenk Hybrids. Sieben Hybrids. Smiley Hybrids. Southern States Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co. Moews Corn Belt Co., Inc. Moews Seed Co. Roy A. Morton & Sons. Mountjoy Hybrid Seed Co. Munson Hybrids. Nichols Bros. Null Seed Farms. Pfister Assoc. Growers, Inc. Pioneer Hi-Bred Corn Co. of Ill. Producers Seed Co. W. T. Schwenk & Sons. Sieben Hybrids. Glenn Smiley. Cooperative Seed & Farm Supply Co. Steckley Hybrid Corn Co.	(Ill. Agr. Exp. Sta101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City .Edwards .Geneseo .Milford .Muncie .2416 N. St., Lincoln, Nebr.
Moews Corn Belt Hybrids Moews Hybrids. Morton Hybrids. Mountjoy Hybrids. Munson Hybrids. Nichols Hybrids. Null Hybrids. P.A.G. Hybrids. Producers Hybrids. Schwenk Hybrids. Sieben Hybrids. Sieben Hybrids. Southern States Hybrids. Steckley Hybrids.	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co. Moews Corn Belt Co., Inc. Moews Seed Co. Roy A. Morton & Sons. Mountjoy Hybrid Seed Co. Munson Hybrids. Nichols Bros. Null Seed Farms. Pfister Assoc. Growers, Inc. Pioneer Hi-Bred Corn Co. of Ill. Producers Seed Co. W. T. Schwenk & Sons. Sieben Hybrids. Glenn Smiley. Cooperative Seed & Farm Supply Co. Steckley Hybrid Corn Co.	(Ill. Agr. Exp. Sta101 Choteau Ave., St. Louis, MoBoswell, IndGranville .Bowen .Atlanta .Galesburg .Hebron .Colchester .Aurora .Princeton .Piper City .Edwards .Geneseo .Milford .Muncie .2416 N. St., Lincoln, NebrPrinceville
Moews Corn Belt Hybrids Moews Hybrids Morton Hybrids Mountjoy Hybrids Munson Hybrids Nichols Hybrids Null Hybrids P.A.G. Hybrids Producers Hybrids Schwenk Hybrids Sieben Hybrids Smiley Hybrids Steckley Hybrids Stewart Hybrids Stiegelmeier Hybrids	Ill. 1831, 1850, 1852, 1857 (Ill. Agr Ill. 1863 (Huebsch) Ill. 1896, 1902, 1913, 1919, 6021 Corneli Seed Co. Moews Corn Belt Co., Inc. Moews Seed Co. Roy A. Morton & Sons. Mountjoy Hybrid Seed Co. Munson Hybrids. Nichols Bros. Null Seed Farms. Pfister Assoc. Growers, Inc. Pioneer Hi-Bred Corn Co. of Ill. Producers Seed Co. W. T. Schwenk & Sons. Sieben Hybrids. Glenn Smiley. Cooperative Seed & Farm Supply Co. Steckley Hybrid Corn Co. Frank S. Stewart. H. L. Stiegelmeier.	(Ill. Agr. Exp. Sta. .101 Choteau Ave., St. Louis, Mo. Boswell, Ind. Granville Bowen Atlanta Galesburg Hebron Colchester Aurora Princeton Piper City Edwards Geneseo Milford Muncie .2416 N. St., Lincoln, Nebr. Princeville Normal
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Trisler T-325		VV
Trisler T-32B		Whisnand 804
Trisler T-33B		Whisnand 830
Trisler T-45		Whisnand 851

PEDIGREES OF 24 HYBRIDS

Following is a list of open-pedigree hybrids whose performance is shown in this bulletin.

AES 805(WF9×38-11)(C103×Oh45)	Ill. 1831(WF9×W146)(K237×Oh45)
Ill. 21(WF9×38-11)(Hy2×187-2)	Ill. 1850 (CI.21E×C103)(38-11×K201)
Ill. $101(WF9 \times M14)(187-2 \times W26)$	Ill. 1852 (CI.21E×C103)(38-11×Oh7)
Ill. 1091(WF9×Hy2)(M14×187-2)	Ill. $1857(K201 \times CI.21E)(38-11 \times Oh41)$
Ill. $1091A.(WF9\times M14)(Hy2\times 187-2)$	Ill. $1863(WF9 \times M14)(I.205 \times Oh43)$
Ill. $1246(WF9 \times 38-11)(R61 \times 187-2)$	Ill. $1896(R138 \times R139)(R140 \times R141)$
III. $1277(WF9 \times M14)(I.205 \times 187-2)$	Ill. 1902A . (WF9 \times R139)(R138 \times R142)
Ill. 1280. (WF9 \times M14)(Os420 \times 187-2)	Ill. 1913(WF9 \times 38-11)(R151 \times R154)
Ill. 1511 (WF9 \times Hy2)(38-11 \times L304A)	Ill. 1919(WF9 \times 38-11)(R130 \times R156)
Ill. 1570 (WF9 \times 38-11) (Hy2 \times Oh41)	Ill. $6021(R75 \times R76)(R84 \times K4)$
Ill. 1656 (WF9 \times 38-11) (Hy2 \times C103)	U.S. $13(WF9 \times 38-11)(Hy2 \times L317)$

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